

IN THE DRAWINGS:

Please substitute the amended drawings for Figures 1 through 7. Changes are marked up.

IN THE CLAIMS:

Please cancel claims 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 25, 26, 27, 28 and 29 without prejudice or disclaimer and enter the following new claims:

30. (New) A process for converting sorption reaction work into useful electrical work by means of a galvanic membrane electrolyte reaction cell (Fig.1) comprising feeding to and carrying off a substance system consisting of a vapor carrier gas mixture and a sorptive solution absorbing the vapor in the cell housing (2);

said cell housing (2) containing a flat-shaped, porous, gas-permeable first electrode (4) and a flat-shaped, porous gas- and liquid-permeable second electrode (5), divided by a media-sealing, electrically isolating peripheral seal (3) into a first housing part (2.1) and a second housing part (2.2);

a selectively ion-permeable membrane electrolyte (6) arranged between the electrode faces (4.2, 5.2) forming with said porous electrodes (4,5) a mechanically stable

Fig. 1

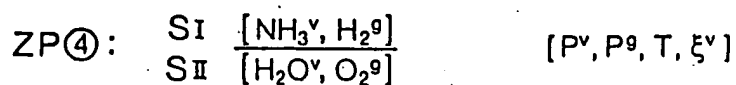
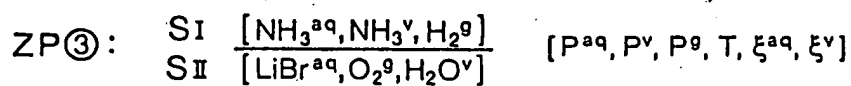
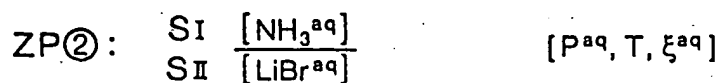
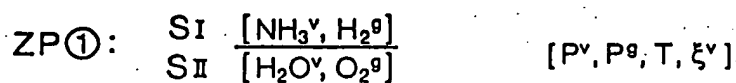
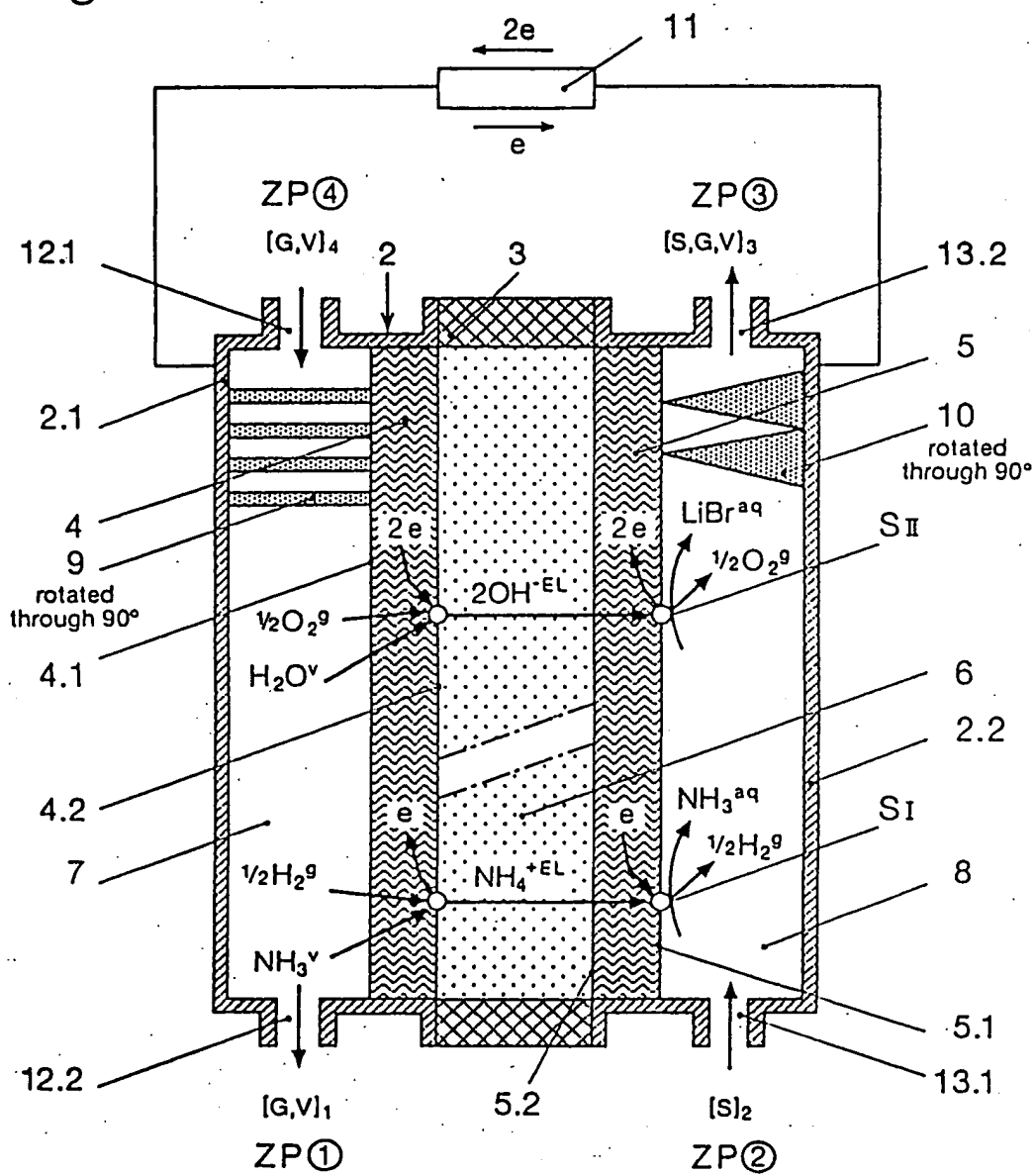
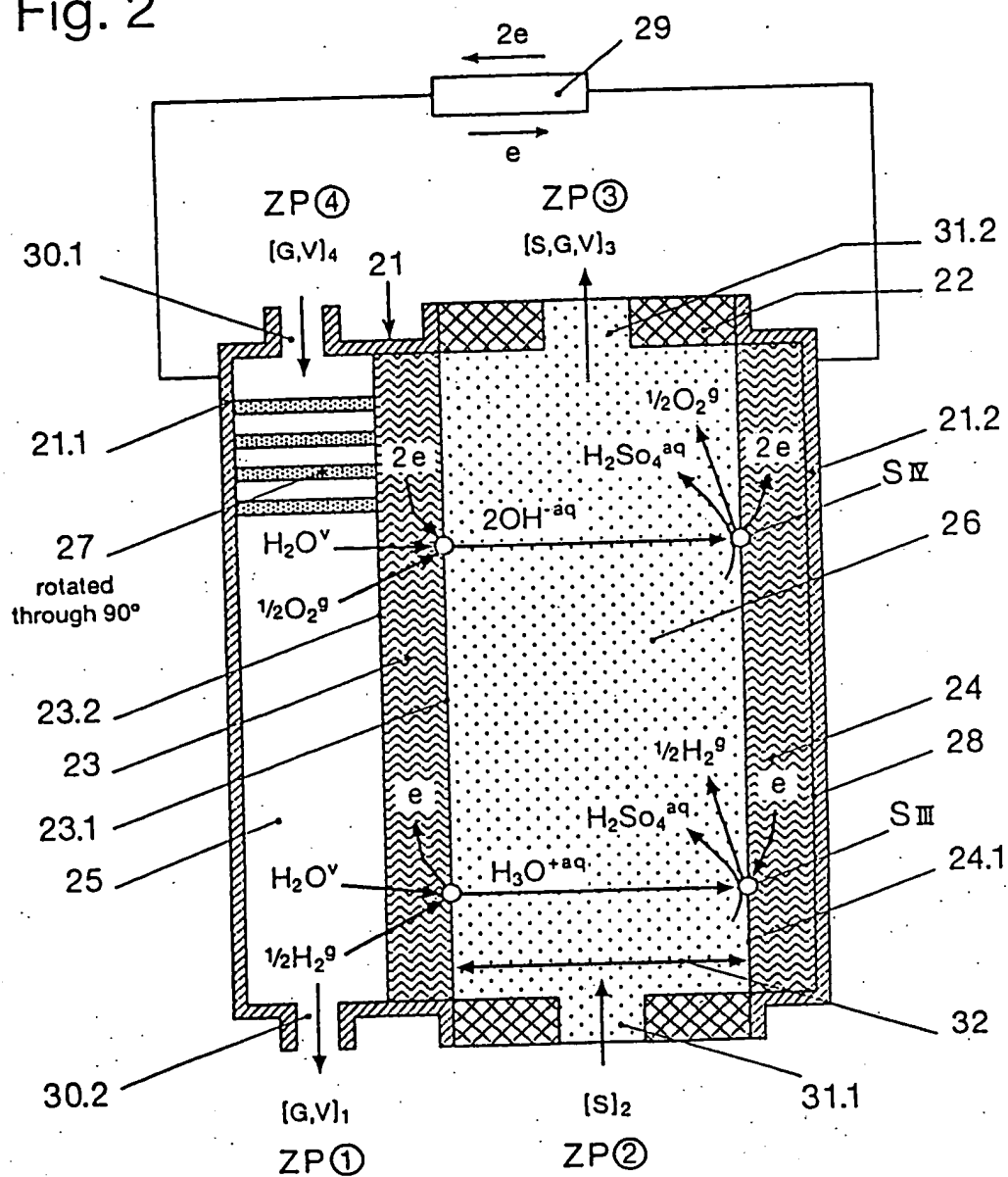


Fig. 2



S III $|H_2O^v; H_2^g|H_3O^+, EL|H_2SO_4^{aq}, H_2^g|$

S IV $|H_2O^v, O_2^g|OH^-, EL|H_2SO_4^{aq}, O_2^g|$

State points (ZP) in accordance with Fig. 3

Fig. 3

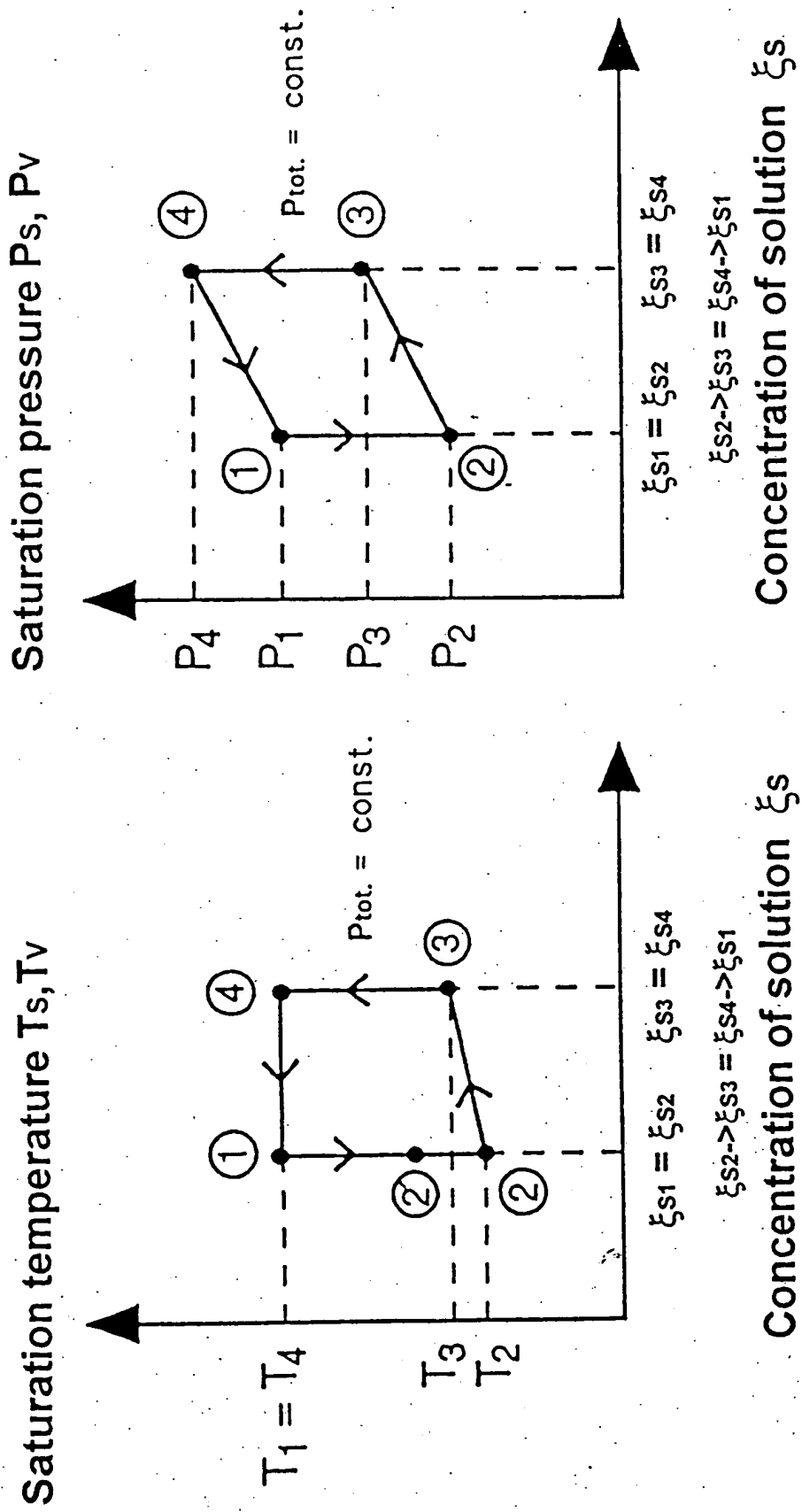


Fig. 4

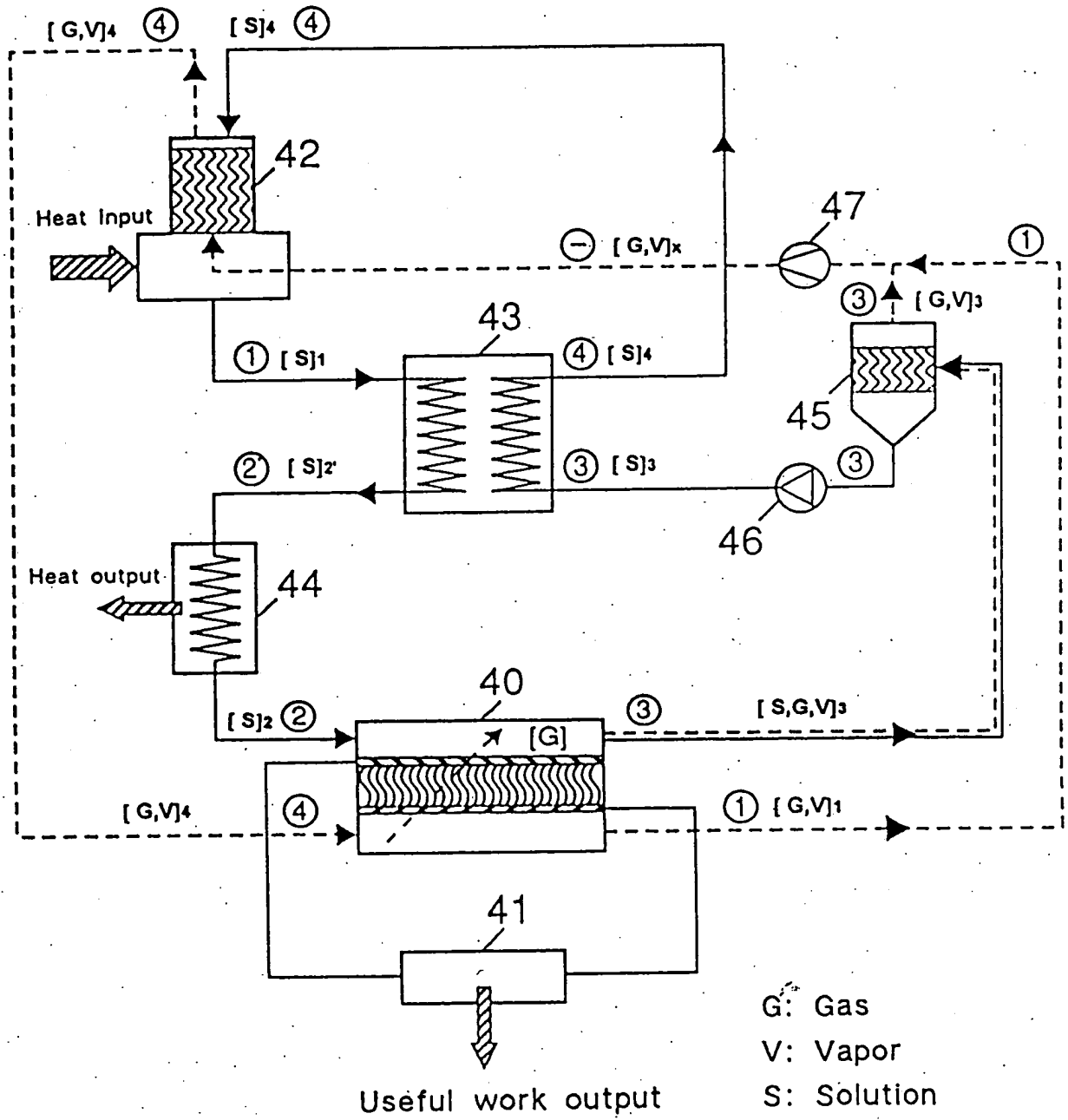
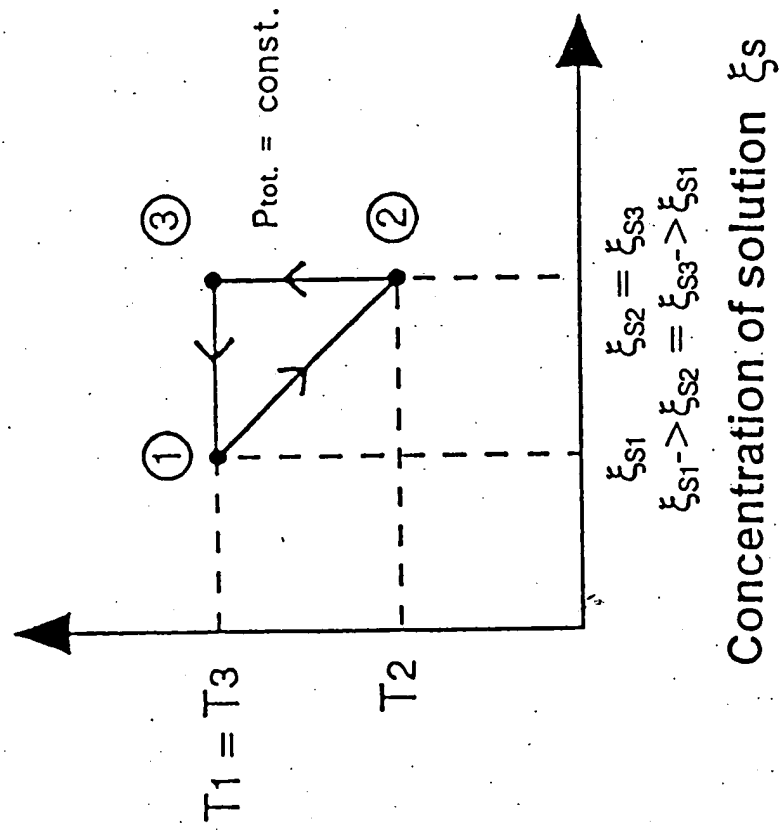


Fig. 5

Saturation temperature T_s, T_v



Saturation pressure P_s, P_v

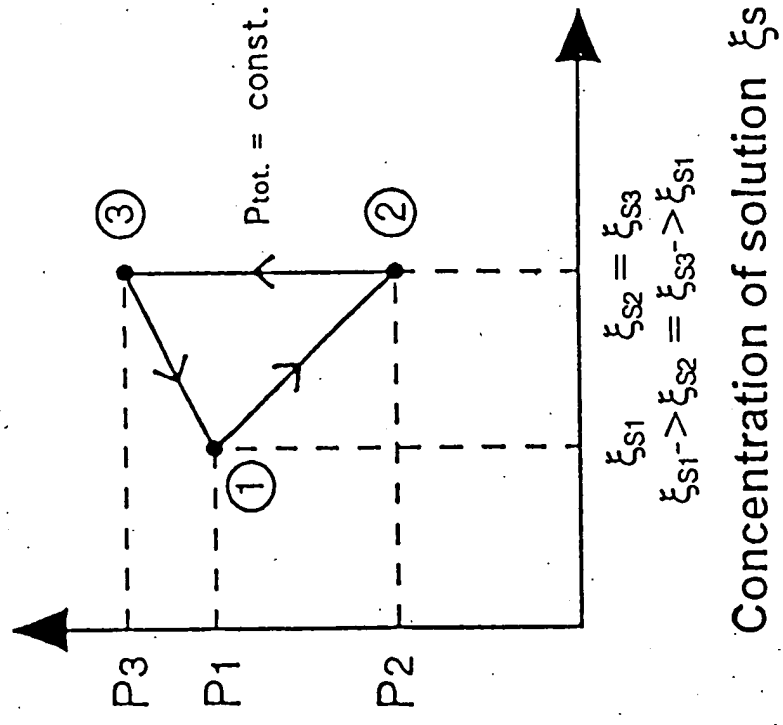


Fig. 6

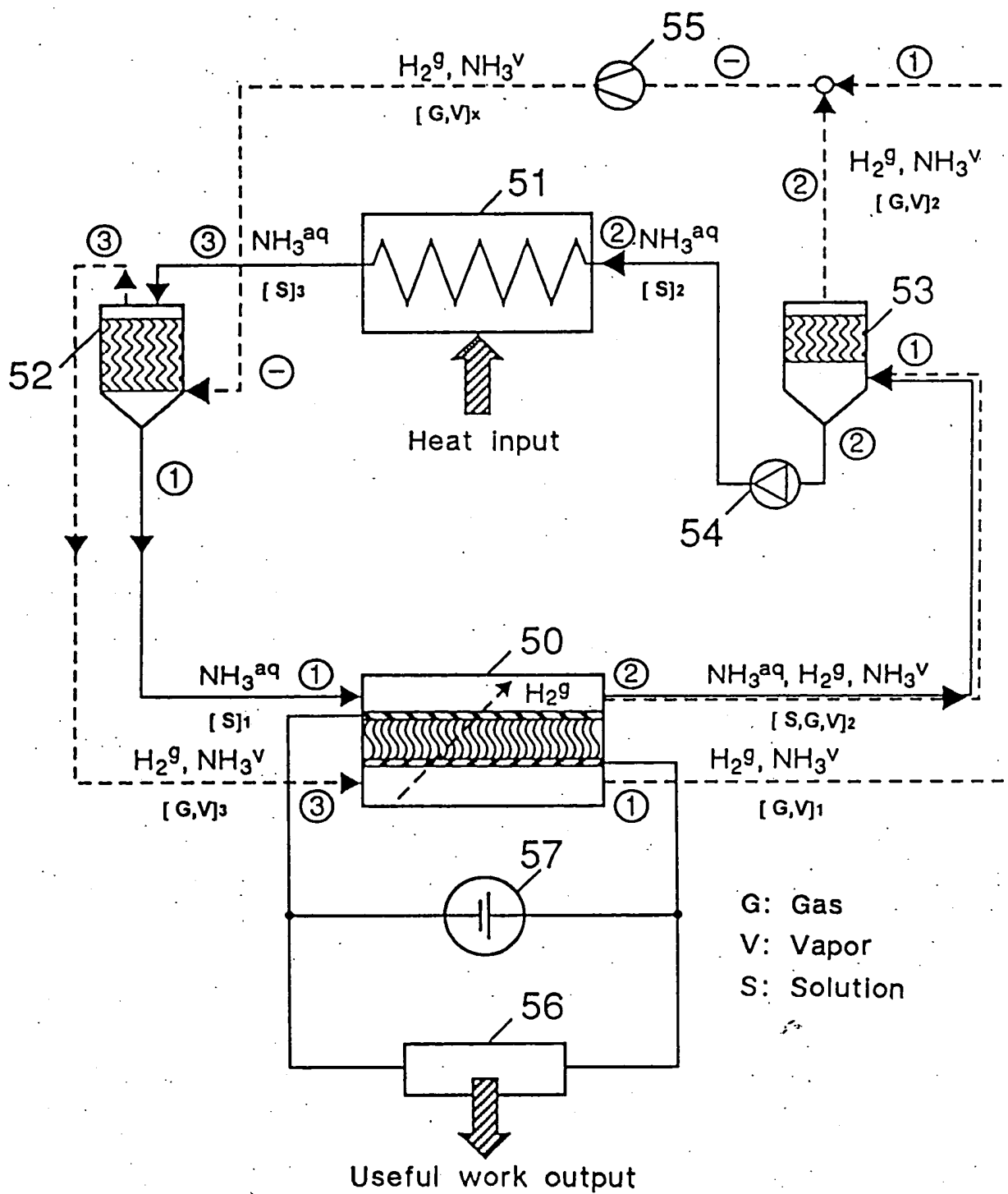


Fig. 7

